CONSUMPTIVE USE RATES FOR ALFALFA ALAMOGOROO FIELD OFFICE SD AREA

						17100				
		CU - IN./	DAY		CIR - IN/	DAY	ACIR - IN/DAY			
MONTH	PEAK	MEAN	LOW	PEAK	MEAN	LOW	PEAK	MEAN	LOW	
APRIL	.14	./2	.05	./3	- 11	.04	.14	./2	.05	
MAY	.24	.20	.08	-23	.19	.08	.24	.20	.08	
JUNE	.34	.28	-11	.3/	.26	./0	.32	.27	• 11	
JULY	.35	.29	./2	.29	.24	.10	.32	.27	• 11	
AUG.	.3/	.26	.10	.25	.2/	.08	.29	.24	.10	
SEPT.	.22	.18	.07	.16	./3	.05	.19	.16	.06	
ост.	./3	ا ا ه	.04	./0	.08	.03	./2	.10	.04	

Consumptive use studies conducted on alfalfa at Fort Summer, Portales, and Lovington by the SCS have given us a refined data base on which to make consumptive use computations.

Alfalfa, cut for hay once a month during the growing season, has a variable daily consumptive use rate which reaches a peak value just prior to cutting and a low value which occurs immediately after cutting.

To obtain a consumptive use value for planning or sizing a system, the mean value shown in the table should be used.

For irrigation depth and frequency determinations, the peak daily value is approximately 1.2 times the mean value, while the low value of daily consumptive use is approximately .4 times the mean daily value.

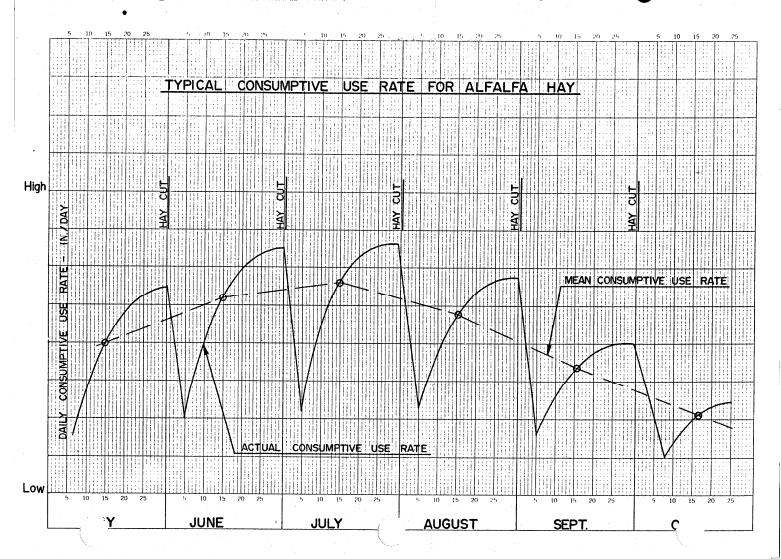
Alfalfa grown for seed production will have a consumptive use value equal to the peak value during full cover until the middle of full bloom.

As irrigation pumping costs have increased, and many water supplies have dwindled, many alfalfa hay growers are aiming not at maximum hay production per acre, but rather at a maximum hay production per acre-inch of water applied. In areas where this is the grower's objective, a planning or sizing value of .85 to .9 times the mean is applicable to a system devoted to alfalfa hay.

The yearly volumes shown for CU, CIR, and ACIR are calculated using the mean value.

(Over)

YEARLY VOLUME AT 100% EFFICIENCY						
CU	CIR	ACIR				
43.4	36.7"	40.1"				



Tabular Computations

		CONSUMP	TIVE USE	REQUIREM	ENTS	CC-T	r21-	4/8/
	·		FOI	₹				
	·····	ALA	moGo	RDO	FIELD	OFFICE		
			_	AREA	:	w.		
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		9-3		
CROP	MONTH	CU "/DAY	CIR "/DAY	ACIR "/DAY		TOTAL CU "/YEAR	TOTAL CIR "/YEAR	TOTAL ACIR "/YEAR
Cool	FEB.	.03	.0/	.02		40.5	32.5	36.5
Season	MAR.	.06	.05	.06				
Irrigate	d April	.//	.10	- 11				
Pasture	May	.17	.16	. /7				
	June	.23	.21	.22				
	July	.24	.19	.22				
	Aug.	,22	-17	.20				
	Sept.	-16	- 11	. 14				
	Oct.	.10	.07	.09				
	NOV.	.04	.03	.04				
Warm								
Season								
Irrigate	d April	- 11	.10	• //		36.6	29.9	33.3
Pasture	May	.17	.16	./7				
	June	.23	.2/	.22			ļ	
	July	.24	-19	.22				
	Aug.	.22	.17	. 20				
	Sept.	.16	•//	.14				
	Oct.	./0	.07	.09				
								·
The cons	umptive u he growin	se of irr g season	ngated pa as those	sture fo	llows the ralfalfa	same ger	eral flucthat the	tuations e changes
lare due l	to not on	Nv cuttin	d for ha	v. but al	so grazin	a. Since	the gra:	tina
these fl	y can var uctuatio n	y greatly s. There	fore. th	rm to far e above d	m, no att ata refle	empt has	peen made ean monti	to plot
yearly v	alues for	the cons	umptive	use of ir	rigated p	asture.		
		<u> </u>						

 CONSUMPTIVE USE REQUIREMENTS	CC-TRZ1-4/8/
 for	· · · · · · · · · · · · · · · · · · ·
 ALAMOGORDO	Field Office
SD AREA	

CROP	MONTH	CU "/DAY	CIR "/DAY	ACIR "/DAY		TOTAL CU "/YR	TOTAL CIR "/YR	TOTAL ACIR "/YR
COTTON	APRIL		_			19.6	13.2	16.4
	MAY	.01		.0/				
	JUNE	.06	.04	.05				
	JULY	.15	.10	./3				
	AUG.	.25	.20	.23				
	SEPT.	.14	.09	./2				
	OCT.	.05	.03	.04				
CHILE	APRIL					19./	13.2	16.2
	MAY							
tana da estado a	JUNE	.03	.0/	.02	tutosti, seciensky	4.7.4.	a persent of the second	y to the latest
	JULY	• 1/	.06	.09				
	AUG.	.25	.20	.23				
	SEPT.	./9	.14	.17				
	OCT.	.05	.02	.04				
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Tabular Computations

CONSUMPTIVE USE REQUIREMENTS	CC-TR-21-4/8/
 for	*
ALAMOGORDO	Field Office
SD AREA	<i>'</i>

CROP CU "/DAY ACIR "/DAY TOTAL CU "/YR TOTAL CIR "/YR	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
E , D, A, D OT OT	"/YR
PECANS APRIL . 02 . 01 . 02 32.3 25.6 2	7.5
PECANS APRIL . 02 . 01 . 02 32.3 25.6 2°	
JUNE . 21 .19 .20	
JULY .22 .17 .20	
AUG 20 . 15 . 18	
SEPT18 .13 .16	
OCT/3 ./0 ./2	
PECANS APRIL . 03 . 02 . 03 49.6 42.9 4	6.3
TOP DIA. MAY .14 .13 .14	
JUNE .30 .28 .29	
2017 .32 -30 .33	
AUG33 .28 .3/	
SEPT. 30 .25 .28	
OCT21 .18 .20	
PISTACHIOS 30.9 24.2 2	7.6
APRIL .05 .04 .05	
may .14 .12 .13	
JUNE . 24 . 22 . 23	
JULY .26 .21 .23	-
AUG. 19 .14 .16	
SEPT10 .05 .07	
OCT06 .01 .04	

CONSUMPTIVE USE REQUIREMENTS	CC-TR-21-4/8/
for	
- ALAMOGORDO	Field Office
SD AREA	

	T	Γ	1	T	ı	1		1 ~
CROP	MONTH	CU "/DAY	CIR "/DAY	ACIR "/DAY		TOTAL CU "/YR	TOTAL CIR "/YR	TOTAL ACIR "/YR
GRAIN SORGHUM	JUNE	-10	.08	.09		25.8	19.9	22.9
	JU24	.23	.18	.2/				
	AUG.	.27	.22	.25		·		
	SEPT.	•		-15			·	
	OCT.	.08	.05	.07				
						·		
CORN	mAY	.05	-05	.05		27.9	22.6	25.3
	JUNE	-16	014	.15				
	3024	·27	.22	-25				
	AUG.	.27	.22	.25		-		
	SEPT.	•/8	./3	-16				
			- Alaska			, ,		
WINTER SMALL								
GRAINS	SEPT.	. 10	.05	.08		23.3	19.4	21.4
	0 CT.	•/3	.10	./2				
	NOVO	007	.06	.07				
	MARCH	٤١.	. /2	•/3				
	APRIL	.19	.18	<u>.</u> /9				
	MAY	-26	.25	.26				
	JONE	.09	.07	.08				
SPRING Small								
GRAINS	FEB.	.02	•0/	.02		16.4	14.3	15.4
	MARCH	.06	.05	.06				
	APRIL	.16	.15	.16				
	mAY	.22	. 2/	.22				
	JUNE	.09	.07	<i>.</i> 08		·		

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CONSUMPTIVE USE REQUI	REMENTS CC - TR-21 - 4/8/
for	
ALAMOGO	Field Office
SD AR	EA

CROP	MONTH	CU "/DAY	CIR "/DAY	ACIR "/DAY		TOTAL CU "/YR	TOTAL CIR "/YR	TOTAL ACIR "/YR
OPECHARD W/COVER	APRIL	. /3	_/2	.73		45.7	39.0	42.4
	MAY	.2/	.20	.21				
	JUNE	.30	.28	.29				
	2017	.3/	.26	-29				
	AUG.	.27	.22	.25				
	SEPT.	.19	.14	-17				
	oct.	./2	-09	- 11				
0.0011050								
MOCOVER	APRIL	. 08	.07	.08		33.7	27.0	16.9
	may	.17	.16	•17				
	JUNE	. 25	. 23	.24		_ ext in_ et also	r	Angles of the Control
	ZULY .	. 27	.22	-25				
	AUG.	.2/	.16	.19				
	SEPT.	.10	.05	.08				
	OCT.	.04	•01	.03				
					· · · · · · · · · · · · · · · · · · ·			
· ·								